

Date: Sat, 23 Jul 94 02:39:20 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #830
To: Info-Hams

Info-Hams Digest Sat, 23 Jul 94 Volume 94 : Issue 830

Today's Topics:

 License in 7 Weeks!
 Nikola Tesla - the true father of Radio
 orbs\$203.2l.amsat
 orbs\$203.micro.amsat
 orbs\$203.misc.amsat
 orbs\$203.oscar.amsat
 orbs\$203.weath.amsat
 RS Freq Counter?
 Wanted: CW filter for Kenwood TS930

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 22 Jul 1994 14:32:13 GMT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!convex!darwin.sura.net!rsg1.er.usgs.gov!
dgg.cr.usgs.gov!bodoh@network.ucsd.edu
Subject: License in 7 Weeks!
To: info-hams@ucsd.edu

In article <30nggb\$q7a@ivy.bga.com>, maultsby@bga.com (John Maultsby) writes:
|> Now this is truly amazing.... Several folks saying that their licenses
|> are arriving in less than 9 weeks....
|>
|> One possibility I can think of: At a testing session I was at in March,
|> I remember the VE's mentioning that they were supposed to be using the
|> NEW form 610's. However, they did not have enough to go around. The
|> previous day, they had called the ARRL/VEC, and they were told that if

|> they didn't have enough of the new 610's, just use the old 610's and
|> those old forms would be put at the "top of the stack", as to get them
|> through the FCC computer before the big switchover.
|>

Another thought - perhaps the folks at the FCC got tired of hearing the
phone ring and being badmouthed everywhere and pulled folks from other areas
to man the terminals for a few days to get rid of the backlog. Or maybe
they brought their kids in? Anyway, it appears that the backlog is breaking
loose...

```
+++++
+ Tom Bodoh - Section Manager, Systems Engineering and Management, Hughes STX +
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +
+ Internet; bodoh@dggs.cr.usgs.gov (152.61.192.66) Amateur radio call; N0YGT +
+ "Welcome back my friends to the show that never ends!" EL&P
+
+++++
```

Date: 22 Jul 94 07:41:20
From: agate!howland.reston.ans.net!gatech!swrinde!cs.utexas.edu!math.ohio-
state.edu!magnus.acs.ohio-state.edu!csn!news.usafa.af.mil!usafa2!
jcmiller@ames.arpa
Subject: Nikola Tesla - the true father of Radio
To: info-hams@ucsd.edu

In article <774859290snx@skyld.grendel.com> jangus@skyld.grendel.com (Jeffrey D.
Angus) writes:

In article <5E2xKHn.bobb67@delphi.com> you write:

```
>
>
> TESLA
>
> Few people recognize his name today, and even among those who do, the
> words Nikola Tesla are likely to summon up the image of a crackpot
> rather than an authentic scientific genius. But were you aware that
> Tesla was responsible for...
```

Yeah, genius though he may have been, he was also as crazy as a shit house
rat. One of the better books I have on him is a collection of his writings.
Once you've read what he had to say in his own words, you can see why most
people thought him to be a crackpot.

Remember, he also came up with the idea of free energy to the masses with

his large resonant transformer project. Just imagine that if he had managed to finish it, there would not be radio communications as we know it. Period!

As far as the rift between Tesla and Edison, that was partly due to Edison's "Not-Invented-Here" attitude and partly due to Tesla's unusually firm belief of his own infallibility. (Hummm, sort of like the discussions on r.r.a.p)

Tesla, genius or madman? Both!

73 es GM from Jeff

For what it's worth, even as I type (well, sorta...it's only 0730 local) the annual International Tesla Conference is going on right here in Colorado Springs. Wayne even mentioned it in his August editorial.

They also had a short bit about it on the local news last night...judging from the appearance of some of the participants (cf. my postings in .policy a few months back about the appearance of hams at Dayton), it looks like some of them are trying to follow in Nikola's footsteps :-).

73, Jeff

--

Jeff Miller, NH6ZW/N0, AFA5MJ/AFF5CO (ex WD6CQV, AFA1D0, AFA8JM, AFA1HE)
USAFAnet Manager and General Troubleshooter [jcmiller@gems.usafa.af.mil] or
HQ USAF/DFYC, USAF Academy, CO 80840 [millerjrc%dfyc@dfmail.usafa.af.mil]
55: It's not a good idea, it's just the law. E-mail for NMA info.

Date: 22 Jul 94 13:44:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs\$203.21.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-203.N
2Line Orbital Elements 203.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX July 22, 1994
BID: \$ORBS-203.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN

G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10

1 14129U 83058B 94195.81899517 -.000000239 00000-0 10000-3 0 2900
2 14129 27.0497 317.9184 6025942 194.3808 135.3303 2.05882029 83355

UO-11

1 14781U 84021B 94199.48919451 .000000098 00000-0 24462-4 0 7086
2 14781 97.7853 212.7468 0011606 164.4932 195.6634 14.69230442554907

RS-10/11

1 18129U 87054A 94197.30647920 .000000024 00000-0 95033-5 0 9267
2 18129 82.9266 307.3174 0010629 309.9250 50.0970 13.72339165353908

AO-13

1 19216U 88051B 94196.85984906 .000000217 00000-0 10000-4 0 9310
2 19216 57.7662 241.7882 7219935 345.8198 1.7627 2.09720171 46619

FO-20

1 20480U 90013C 94196.43656308 -.000000018 00000-0 41546-4 0 7050
2 20480 99.0371 342.9206 0539924 275.4857 78.4920 12.83226347207750

AO-21

1 21087U 91006A 94197.22316383 .000000094 00000-0 82657-4 0 4891
2 21087 82.9454 121.2318 0036264 5.6499 354.5058 13.74542090173572

RS-12/13

1 21089U 91007A 94198.89454776 .000000022 00000-0 76525-5 0 7080
2 21089 82.9212 348.6696 0030577 25.1580 335.1056 13.74043567172868

ARSENE

1 22654U 93031B 94188.21304092 -.000000116 00000-0 00000 0 0 2649
2 22654 1.8958 98.1428 2918247 185.7752 169.5951 1.42202950 1486

UO-14

1 20437U 90005B 94198.24542996 .000000013 00000-0 21993-4 0 108
2 20437 98.5893 282.6137 0011828 100.6891 259.5624 14.29849660233880

AO-16

1 20439U 90005D 94195.78079047 .000000010 00000-0 20657-4 0 8086
2 20439 98.5977 281.4443 0012030 108.0022 252.2471 14.29903339233543

DO-17

1 20440U 90005E 94199.72060632 .000000023 00000-0 25944-4 0 8095
2 20440 98.5990 285.6692 0012218 96.2295 264.0280 14.30043483234121

WO-18

1 20441U 90005F 94197.73736895 .000000012 00000-0 21436-4 0 8119
2 20441 98.5989 283.7090 0012786 102.3306 257.9303 14.30017383233848

LO-19

1 20442U 90005G 94196.24430425 -.000000013 00000-0 11687-4 0 8079
2 20442 98.5998 282.4984 0013130 106.5314 253.7309 14.30113337233640

UO-22

1 21575U 91050B 94198.77455892 -.000000012 00000-0 10550-4 0 5123
2 21575 98.4336 272.6530 0007314 193.2332 166.8641 14.36923567157470

KO-23

1 22077U 92052B 94198.40713031 -.000000037 00000-0 10000-3 0 4075

2	22077	66.0825	216.7082	0015129	279.4774	80.4534	12.86286995	90673
AO-27								
1	22825U	93061C	94198.16297797	.000000015	000000-0	23765-4	0	3051
2	22825	98.6525	273.6702	0009098	116.6352	243.5760	14.27629544	41964
IO-26								
1	22826U	93061D	94197.16066415	.000000010	000000-0	21762-4	0	3052
2	22826	98.6521	272.7178	0009803	121.7855	238.4287	14.27733649	41821
KO-25								
1	22830U	93061H	94197.23470784	.000000014	000000-0	23059-4	0	3104
2	22830	98.5530	269.7323	0012471	90.3363	269.9244	14.28060091	41842
NOAA-9								
1	15427U	84123A	94201.86245204	.000000025	000000-0	37588-4	0	8849
2	15427	99.0478	252.7418	0015598	122.0163	238.2527	14.13629378495012	
NOAA-10								
1	16969U	86073A	94201.86328615	.000000081	000000-0	53037-4	0	7809
2	16969	98.5077	209.8364	0012246	229.7166	130.2942	14.24898582407293	
MET-2/17								
1	18820U	88005A	94201.62180260	.000000030	000000-0	13392-4	0	3428
2	18820	82.5410	241.9868	0018350	85.4706	274.8550	13.84718717326982	
MET-3/2								
1	19336U	88064A	94198.24789366	.000000051	000000-0	10000-3	0	3033
2	19336	82.5426	302.4101	0016349	184.3052	175.7944	13.16968059287213	
NOAA-11								
1	19531U	88089A	94201.84751066	.000000123	000000-0	91138-4	0	7018
2	19531	99.1768	191.5874	0012810	40.6400	319.5723	14.13004374299896	
MET-2/18								
1	19851U	89018A	94200.24040062	.000000079	000000-0	57565-4	0	3041
2	19851	82.5213	118.3723	0014637	130.5801	229.6642	13.84368734272123	
MET-3/3								
1	20305U	89086A	94201.82721807	.000000044	000000-0	10000-3	0	973
2	20305	82.5558	246.7281	0007515	197.8160	162.2765	13.04420963227287	
MET-2/19								
1	20670U	90057A	94197.43503863	.000000011	000000-0	-31660-5	0	8081
2	20670	82.5412	185.2324	0017819	65.2598	295.0412	13.84189727204666	
FY-1/2								
1	20788U	90081A	94201.03125279	-.000000160	000000-0	-77572-4	0	192
2	20788	98.8361	220.1235	0015371	283.4599	76.4854	14.01355080198306	
MET-2/20								
1	20826U	90086A	94196.29610291	.000000068	000000-0	48554-4	0	8162
2	20826	82.5261	123.6224	0013521	337.1090	22.9465	13.83585165191643	
MET-3/4								
1	21232U	91030A	94196.89854597	.000000051	000000-0	10000-3	0	7153
2	21232	82.5419	149.2965	0014062	109.2980	250.9665	13.16463644155135	
NOAA-12								
1	21263U	91032A	94201.81770658	.000000124	000000-0	75026-4	0	1068
2	21263	98.6161	228.8512	0013265	134.6683	225.5578	14.22430093165287	
MET-3/5								
1	21655U	91056A	94198.22122814	.000000051	000000-0	10000-3	0	7249

2 21655 82.5533 95.5393 0014509 116.3327 243.9294 13.16831986140412
 MET-2/21
 1 22782U 93055A 94198.46389259 .00000026 00000-0 10264-4 0 3168
 2 22782 82.5474 182.4409 0023130 137.2472 223.0489 13.83010394 44273
 POSAT
 1 22829U 93061G 94197.66078408 .00000024 00000-0 27399-4 0 2983
 2 22829 98.6462 273.2405 0010944 108.5827 251.6545 14.28033511 41902
 MIR
 1 16609U 86017A 94199.14525698 .00005683 00000-0 85088-4 0 6842
 2 16609 51.6466 31.5281 0001914 139.9218 220.1916 15.56612283480844
 HUBBLE
 1 20580U 90037B 94198.88447229 .00000504 00000-0 35078-4 0 5070
 2 20580 28.4692 38.7915 0006315 49.7864 310.3273 14.90641854 33977
 GRO
 1 21225U 91027B 94198.58388864 .00002710 00000-0 57502-4 0 1166
 2 21225 28.4633 21.1033 0004080 195.0002 165.0482 15.41055357 61637
 UARS
 1 21701U 91063B 94199.17492490 .00003329 00000-0 31148-3 0 5564
 2 21701 56.9859 34.8908 0005691 106.3627 253.8028 14.96502212155576
 /EX

Date: 22 Jul 94 13:40:00 GMT
 From: news-mail-gateway@ucsd.edu
 Subject: orbs\$203.micro.amsat
 To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-203.D
 Orbital Elements 203.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
 FROM WA5QGD FORT WORTH, TX July 22, 1994
 BID: \$ORBS-203.D
 TO ALL RADIO AMATEURS BT

Satellite: UO-14
 Catalog number: 20437
 Epoch time: 94198.24542996
 Element set: 10
 Inclination: 98.5893 deg
 RA of node: 282.6137 deg
 Eccentricity: 0.0011828
 Arg of perigee: 100.6891 deg
 Mean anomaly: 259.5624 deg
 Mean motion: 14.29849660 rev/day
 Decay rate: 1.3e-07 rev/day^2
 Epoch rev: 23388

Checksum: 331

Satellite: A0-16

Catalog number: 20439

Epoch time: 94195.78079047

Element set: 808

Inclination: 98.5977 deg

RA of node: 281.4443 deg

Eccentricity: 0.0012030

Arg of perigee: 108.0022 deg

Mean anomaly: 252.2471 deg

Mean motion: 14.29903339 rev/day

Decay rate: $1.0e-07$ rev/day²

Epoch rev: 23354

Checksum: 296

Satellite: D0-17

Catalog number: 20440

Epoch time: 94199.72060632

Element set: 809

Inclination: 98.5990 deg

RA of node: 285.6692 deg

Eccentricity: 0.0012218

Arg of perigee: 96.2295 deg

Mean anomaly: 264.0280 deg

Mean motion: 14.30043483 rev/day

Decay rate: $2.3e-07$ rev/day²

Epoch rev: 23412

Checksum: 298

Satellite: W0-18

Catalog number: 20441

Epoch time: 94197.73736895

Element set: 811

Inclination: 98.5989 deg

RA of node: 283.7090 deg

Eccentricity: 0.0012786

Arg of perigee: 102.3306 deg

Mean anomaly: 257.9303 deg

Mean motion: 14.30017383 rev/day

Decay rate: $1.2e-07$ rev/day²

Epoch rev: 23384

Checksum: 317

Satellite: L0-19

Catalog number: 20442

Epoch time: 94196.24430425

Element set: 807

Inclination: 98.5998 deg
RA of node: 282.4984 deg
Eccentricity: 0.0013130
Arg of perigee: 106.5314 deg
Mean anomaly: 253.7309 deg
Mean motion: 14.30113337 rev/day
Decay rate: -1.3e-07 rev/day^2
Epoch rev: 23364
Checksum: 292

Satellite: UO-22

Catalog number: 21575
Epoch time: 94198.77455892
Element set: 512
Inclination: 98.4336 deg
RA of node: 272.6530 deg
Eccentricity: 0.0007314
Arg of perigee: 193.2332 deg
Mean anomaly: 166.8641 deg
Mean motion: 14.36923567 rev/day
Decay rate: -1.2e-07 rev/day^2
Epoch rev: 15747
Checksum: 323

Satellite: KO-23

Catalog number: 22077
Epoch time: 94198.40713031
Element set: 407
Inclination: 66.0825 deg
RA of node: 216.7082 deg
Eccentricity: 0.0015129
Arg of perigee: 279.4774 deg
Mean anomaly: 80.4534 deg
Mean motion: 12.86286995 rev/day
Decay rate: -3.7e-07 rev/day^2
Epoch rev: 9067
Checksum: 319

Satellite: AO-27

Catalog number: 22825
Epoch time: 94198.16297797
Element set: 305
Inclination: 98.6525 deg
RA of node: 273.6702 deg
Eccentricity: 0.0009098
Arg of perigee: 116.6352 deg
Mean anomaly: 243.5760 deg
Mean motion: 14.27629544 rev/day

Decay rate: 1.5e-07 rev/day^2
Epoch rev: 4196
Checksum: 335

Satellite: IO-26

Catalog number: 22826
Epoch time: 94197.16066415
Element set: 305
Inclination: 98.6521 deg
RA of node: 272.7178 deg
Eccentricity: 0.0009803
Arg of perigee: 121.7855 deg
Mean anomaly: 238.4287 deg
Mean motion: 14.27733649 rev/day
Decay rate: 1.0e-07 rev/day^2
Epoch rev: 4182
Checksum: 316

Satellite: KO-25

Catalog number: 22830
Epoch time: 94197.23470784
Element set: 310
Inclination: 98.5530 deg
RA of node: 269.7323 deg
Eccentricity: 0.0012471
Arg of perigee: 90.3363 deg
Mean anomaly: 269.9244 deg
Mean motion: 14.28060091 rev/day
Decay rate: 1.4e-07 rev/day^2
Epoch rev: 4184
Checksum: 292

/EX

Date: 22 Jul 94 13:43:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs\$203.misc.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-203.M
Orbital Elements 203.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH, TX July 22, 1994
BID: \$ORBS-203.M
TO ALL RADIO AMATEURS BT

Satellite: POSAT

Catalog number: 22829
Epoch time: 94197.66078408
Element set: 298
Inclination: 98.6462 deg
RA of node: 273.2405 deg
Eccentricity: 0.0010944
Arg of perigee: 108.5827 deg
Mean anomaly: 251.6545 deg
Mean motion: 14.28033511 rev/day
Decay rate: $2.4\text{e-}07$ rev/day²
Epoch rev: 4190
Checksum: 304

Satellite: MIR

Catalog number: 16609
Epoch time: 94199.14525698
Element set: 684
Inclination: 51.6466 deg
RA of node: 31.5281 deg
Eccentricity: 0.0001914
Arg of perigee: 139.9218 deg
Mean anomaly: 220.1916 deg
Mean motion: 15.56612283 rev/day
Decay rate: $5.683\text{e-}05$ rev/day²
Epoch rev: 48084
Checksum: 322

Satellite: HUBBLE

Catalog number: 20580
Epoch time: 94198.88447229
Element set: 507
Inclination: 28.4692 deg
RA of node: 38.7915 deg
Eccentricity: 0.0006315
Arg of perigee: 49.7864 deg
Mean anomaly: 310.3273 deg
Mean motion: 14.90641854 rev/day
Decay rate: $5.04\text{e-}06$ rev/day²
Epoch rev: 3397
Checksum: 320

Satellite: GRO

Catalog number: 21225
Epoch time: 94198.58388864
Element set: 116
Inclination: 28.4633 deg

RA of node: 21.1033 deg
Eccentricity: 0.0004080
Arg of perigee: 195.0002 deg
Mean anomaly: 165.0482 deg
Mean motion: 15.41055357 rev/day
Decay rate: 2.710e-05 rev/day^2
Epoch rev: 6163
Checksum: 262

Satellite: UARS
Catalog number: 21701
Epoch time: 94199.17492490
Element set: 556
Inclination: 56.9859 deg
RA of node: 34.8908 deg
Eccentricity: 0.0005691
Arg of perigee: 106.3627 deg
Mean anomaly: 253.8028 deg
Mean motion: 14.96502212 rev/day
Decay rate: 3.329e-05 rev/day^2
Epoch rev: 15557
Checksum: 323

/EX

Date: 22 Jul 94 13:39:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs\$203.oscar.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-203.0
Orbital Elements 203.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH,TX July 22, 1994
BID: \$ORBS-203.0
TO ALL RADIO AMATEURS BT

Satellite: AO-10
Catalog number: 14129
Epoch time: 94195.81899517
Element set: 290
Inclination: 27.0497 deg
RA of node: 317.9184 deg
Eccentricity: 0.6025942
Arg of perigee: 194.3808 deg

Mean anomaly: 135.3303 deg
Mean motion: 2.05882029 rev/day
Decay rate: -2.39e-06 rev/day^2
Epoch rev: 8335
Checksum: 326

Satellite: UO-11

Catalog number: 14781
Epoch time: 94199.48919451
Element set: 708
Inclination: 97.7853 deg
RA of node: 212.7468 deg
Eccentricity: 0.0011606
Arg of perigee: 164.4932 deg
Mean anomaly: 195.6634 deg
Mean motion: 14.69230442 rev/day
Decay rate: 9.8e-07 rev/day^2
Epoch rev: 55490
Checksum: 343

Satellite: RS-10/11

Catalog number: 18129
Epoch time: 94197.30647920
Element set: 926
Inclination: 82.9266 deg
RA of node: 307.3174 deg
Eccentricity: 0.0010629
Arg of perigee: 309.9250 deg
Mean anomaly: 50.0970 deg
Mean motion: 13.72339165 rev/day
Decay rate: 2.4e-07 rev/day^2
Epoch rev: 35390
Checksum: 304

Satellite: A0-13

Catalog number: 19216
Epoch time: 94196.85984906
Element set: 931
Inclination: 57.7662 deg
RA of node: 241.7882 deg
Eccentricity: 0.7219935
Arg of perigee: 345.8198 deg
Mean anomaly: 1.7627 deg
Mean motion: 2.09720171 rev/day
Decay rate: 2.17e-06 rev/day^2
Epoch rev: 4661
Checksum: 342

Satellite: FO-20
Catalog number: 20480
Epoch time: 94196.43656308
Element set: 705
Inclination: 99.0371 deg
RA of node: 342.9206 deg
Eccentricity: 0.0539924
Arg of perigee: 275.4857 deg
Mean anomaly: 78.4920 deg
Mean motion: 12.83226347 rev/day
Decay rate: $-1.8e-07$ rev/day²
Epoch rev: 20775
Checksum: 327

Satellite: AO-21
Catalog number: 21087
Epoch time: 94197.22316383
Element set: 489
Inclination: 82.9454 deg
RA of node: 121.2318 deg
Eccentricity: 0.0036264
Arg of perigee: 5.6499 deg
Mean anomaly: 354.5058 deg
Mean motion: 13.74542090 rev/day
Decay rate: $9.4e-07$ rev/day²
Epoch rev: 17357
Checksum: 316

Satellite: RS-12/13
Catalog number: 21089
Epoch time: 94198.89454776
Element set: 708
Inclination: 82.9212 deg
RA of node: 348.6696 deg
Eccentricity: 0.0030577
Arg of perigee: 25.1580 deg
Mean anomaly: 335.1056 deg
Mean motion: 13.74043567 rev/day
Decay rate: $2.2e-07$ rev/day²
Epoch rev: 17286
Checksum: 334

Satellite: ARSENE
Catalog number: 22654
Epoch time: 94188.21304092
Element set: 264
Inclination: 1.8958 deg
RA of node: 98.1428 deg

Eccentricity: 0.2918247
Arg of perigee: 185.7752 deg
Mean anomaly: 169.5951 deg
Mean motion: 1.42202950 rev/day
Decay rate: -1.16e-06 rev/day^2
Epoch rev: 148
Checksum: 305

/EX

Date: 22 Jul 94 13:42:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs\$203.weath.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-203.W
Orbital Elements 203.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH,TX July 22, 1994
BID: \$ORBS-203.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 94201.86245204
Element set: 884
Inclination: 99.0478 deg
RA of node: 252.7418 deg
Eccentricity: 0.0015598
Arg of perigee: 122.0163 deg
Mean anomaly: 238.2527 deg
Mean motion: 14.13629378 rev/day
Decay rate: 2.5e-07 rev/day^2
Epoch rev: 49501
Checksum: 314

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 94201.86328615
Element set: 780
Inclination: 98.5077 deg
RA of node: 209.8364 deg
Eccentricity: 0.0012246
Arg of perigee: 229.7166 deg
Mean anomaly: 130.2942 deg

Mean motion: 14.24898582 rev/day
Decay rate: 8.1e-07 rev/day^2
Epoch rev: 40729
Checksum: 332

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 94201.62180260
Element set: 342
Inclination: 82.5410 deg
RA of node: 241.9868 deg
Eccentricity: 0.0018350
Arg of perigee: 85.4706 deg
Mean anomaly: 274.8550 deg
Mean motion: 13.84718717 rev/day
Decay rate: 3.0e-07 rev/day^2
Epoch rev: 32698
Checksum: 304

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 94198.24789366
Element set: 303
Inclination: 82.5426 deg
RA of node: 302.4101 deg
Eccentricity: 0.0016349
Arg of perigee: 184.3052 deg
Mean anomaly: 175.7944 deg
Mean motion: 13.16968059 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 28721
Checksum: 315

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 94201.84751066
Element set: 701
Inclination: 99.1768 deg
RA of node: 191.5874 deg
Eccentricity: 0.0012810
Arg of perigee: 40.6400 deg
Mean anomaly: 319.5723 deg
Mean motion: 14.13004374 rev/day
Decay rate: 1.23e-06 rev/day^2
Epoch rev: 29989
Checksum: 293

Satellite: MET-2/18

Catalog number: 19851
Epoch time: 94200.24040062
Element set: 304
Inclination: 82.5213 deg
RA of node: 118.3723 deg
Eccentricity: 0.0014637
Arg of perigee: 130.5801 deg
Mean anomaly: 229.6642 deg
Mean motion: 13.84368734 rev/day
Decay rate: 7.9e-07 rev/day^2
Epoch rev: 27212
Checksum: 279

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 94201.82721807
Element set: 97
Inclination: 82.5558 deg
RA of node: 246.7281 deg
Eccentricity: 0.0007515
Arg of perigee: 197.8160 deg
Mean anomaly: 162.2765 deg
Mean motion: 13.04420963 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 22728
Checksum: 297

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 94197.43503863
Element set: 808
Inclination: 82.5412 deg
RA of node: 185.2324 deg
Eccentricity: 0.0017819
Arg of perigee: 65.2598 deg
Mean anomaly: 295.0412 deg
Mean motion: 13.84189727 rev/day
Decay rate: 1.1e-07 rev/day^2
Epoch rev: 20466
Checksum: 317

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 94201.03125279
Element set: 19
Inclination: 98.8361 deg
RA of node: 220.1235 deg
Eccentricity: 0.0015371

Arg of perigee: 283.4599 deg
Mean anomaly: 76.4854 deg
Mean motion: 14.01355080 rev/day
Decay rate: -1.60e-06 rev/day^2
Epoch rev: 19830
Checksum: 290

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 94196.29610291
Element set: 816
Inclination: 82.5261 deg
RA of node: 123.6224 deg
Eccentricity: 0.0013521
Arg of perigee: 337.1090 deg
Mean anomaly: 22.9465 deg
Mean motion: 13.83585165 rev/day
Decay rate: 6.8e-07 rev/day^2
Epoch rev: 19164
Checksum: 294

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 94196.89854597
Element set: 715
Inclination: 82.5419 deg
RA of node: 149.2965 deg
Eccentricity: 0.0014062
Arg of perigee: 109.2980 deg
Mean anomaly: 250.9665 deg
Mean motion: 13.16463644 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 15513
Checksum: 324

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 94201.81770658
Element set: 106
Inclination: 98.6161 deg
RA of node: 228.8512 deg
Eccentricity: 0.0013265
Arg of perigee: 134.6683 deg
Mean anomaly: 225.5578 deg
Mean motion: 14.22430093 rev/day
Decay rate: 1.24e-06 rev/day^2
Epoch rev: 16528
Checksum: 290

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 94198.22122814
Element set: 724
Inclination: 82.5533 deg
RA of node: 95.5393 deg
Eccentricity: 0.0014509
Arg of perigee: 116.3327 deg
Mean anomaly: 243.9294 deg
Mean motion: 13.16831986 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 14041
Checksum: 301

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 94198.46389259
Element set: 316
Inclination: 82.5474 deg
RA of node: 182.4409 deg
Eccentricity: 0.0023130
Arg of perigee: 137.2472 deg
Mean anomaly: 223.0489 deg
Mean motion: 13.83010394 rev/day
Decay rate: 2.6e-07 rev/day^2
Epoch rev: 4427
Checksum: 302

/EX

Date: Fri, 22 Jul 1994 14:47:11 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!
MathWorks.Com!news.kei.com!ub!csn!yuma!galen@network.ucsd.edu
Subject: RS Freq Counter?
To: info-hams@ucsd.edu

In article <CtC9LF.G16@nntpa.cb.att.com> wrb@ccsitn.cb.att.com (Wally Blackburn)
writes:

>OK, OK, quit laughing. Has anyone tried the Rat Shack freq counter? Price
>is good. Switchable input impedance. Up to 1 Gig.

Why, is something funny?

I have one. I liked having the chance to hold it in my hand and play with
it before I put down some money. I also figured out how to add a hold
function (so easy I'm surprised RS didn't do it). Solid construction,

metal case, does what I need it to.
I need to get in and play with some other 'test points' and see what they do.
I paid \$90 plus tax using a coupon.
Galen, KF0YJ

Date: 22 Jul 1994 19:36:49 GMT
From: iris.mbvlab.wpafb.af.mil!edfue0!engberg@uunet.uu.net
Subject: Wanted: CW filter for Kenwood TS930
To: info-hams@ucsd.edu

If anyone has a 500 Hz CW filter for a Kenwood TS930, pse contact me.
Either 1st or 2nd IF is fine.

--

Bob Engberg
phone: 907-552-8803
e-mail: engberg@ctis.af.mil
packet: KOMVL@KL7AA.#NAK.AK.USA.NOAM
snail: SAIC
911 W. 8th Ave., Suite 401
Anchorage, AK 99501

End of Info-Hams Digest V94 #830
